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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/918,666 07/30/2001 Jonathan Lee Hanmann K35A0872 2708 26332 **EXAMINER** 7590 04/28/2005 WESTERN DIGITAL CORP. WALSH, JOHN B 20511 LAKE FOREST DRIVE ART UNIT PAPER NUMBER C205 - INTELLECTUAL PROPERTY DEPARTMENT LAKE FOREST, CA 92630 2151

DATE MAILED: 04/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Office Action Summary	09/918,666	HANMANN ET AL.
	Examiner	Art Unit
The MAIL INC DATE of the	John B. Walsh	2151
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1) Responsive to communication(s) filed on 18 January 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
 4) ☐ Claim(s) 1-63 is/are pending in the application. 4a) Of the above claim(s) 3-9,15-21,24-30,36-42 and 45-51 is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2,10-14,22,23,31-35,43,44 and 52-56 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 		
Application Papers		
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/15/01 &7/30/01. U.S. Patent and Trademark Office	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:	r (PTO-413) ate Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, 10-14, 22, 23, 31-35, 43, 44 and 52-56 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,923,648 to Dutta.

As concerns claim 1, a method of operating a mobile terminal (column 2, line 10) comprising the steps of: receiving a first component of a document (a first frame of a document) over a first communication channel (column 1, line 32, one of the many communication channels are used); receiving a second component of the document over a second communication channel (a second frame of document received over a different channel, column 4, lines 19-21); and combining the first and second components of the document (frames are recombined at the mobile terminal to display the document to the user) at the mobile terminal.

As concerns claim 2, the first communication channel comprises a first bandwidth (channel inherently has a bandwidth); and the second communication channel comprises a second bandwidth (channel inherently has a bandwidth) greater than the first bandwidth (bandwidth of second channel can be greater due to less traffic or less interference from noise at a particular point in time, also column 3, lines 61-64).

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As concerns claim 10, the first component of the document is received over the first communication channel substantially concurrent with receiving the second component of the document over the second communication channel (rate of transmission is at such a speed such that reception of the first and second components of the document are considered to be received concurrently, for an interface receiving data serially, the buffer will received one after the other).

As concerns claim 11, the first component of the document is received during a first synchronization session (transmitter and receiver are synchronized for exchanging the first component); and the second component of the document is received during a second synchronization session (transmitter and receiver are synchronized for exchanging the second component).

As concerns claim 12, a method of operating a mobile terminal comprising the steps of: receiving a first component of a document (a first frame of a document) over a communication channel (column 1, line 32; one of the many communication channels are used) during a first synchronization session (transmitter and receiver are synchronized for exchanging the first component); receiving a second component of the document (a second frame of a document) over the communication channel (column 1, line 32; one of the many communication channels are used) during a second synchronization session (transmitter and receiver are synchronized for exchanging the second component); and combining the first and second components of the document at the mobile terminal (frames are recombined at the mobile terminal to display the document to the user).

As concerns claim 13, the first component of the document is received over a first communication channel, and the second component of the document is received over a second

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communication channel (column 1, line 32, one of the many communication channels are used, frames can be transmitted over different channels).

As concerns claim 14, the first communication channel comprises a first bandwidth (channel inherently has a bandwidth), and the second communication channel comprises a second bandwidth (channel inherently has a bandwidth) greater than the first bandwidth (bandwidth of second channel can be greater due to less traffic or less interference from noise at a particular point in time, also column 3, lines 61-64, FDMA or TDMA).

As concerns claim 22, a mobile terminal (120) comprising: a screen (128); a local memory (DTE inherently has memory w/ processor); and a terminal controller (127) for: receiving a first component of a document (a first frame of a document) over a first communication channel (column 1, line 32, one of the many communication channels are used); receiving a second component of the document (a second frame of a document) over a second communication channel (column 1, line 32, one of the many communication channels are used); and combining the first and second components of the document at the mobile terminal (frames are recombined at the mobile terminal to display the document to the user).

As concerns claim 23, the mobile terminal as recited in claim 22, wherein the first communication channel comprises a first bandwidth (channel inherently has a bandwidth); and the second communication channel comprises a second bandwidth (channel inherently has a bandwidth) greater than the first bandwidth (bandwidth of second channel can be greater due to less traffic or less interference from noise at a particular point in time, also column 3, lines 61-64).

As concerns claim 31, the mobile terminal as recited in claim 22, wherein the first component of the document is received over the first communication channel substantially concurrent with receiving the second component of the document over the second communication channel (rate of transmission is at such a speed such that reception of the first and second components of the document are considered to be received concurrently, for an interface receiving data serially, the buffer will received one after the other).

As concerns claim 32, the mobile terminal as recited in claim 22, wherein: the first component of the document is received during a first synchronization session (transmitter and receiver are synchronized for exchanging the first component); and the second component of the document is received during a second synchronization session (transmitter and receiver are synchronized for exchanging the second component).

As concerns claim 33, a mobile terminal comprising: a screen (128); a local memory (DTE inherently has memory w/ processor) and a terminal controller (127) for: receiving a first component of a document (first frame of a document) over a communication channel (column 1, line 32, one of the many communication channels are used) during a first synchronization session (transmitter and receiver are synchronized for exchanging the first component); receiving a second component of the document (second frame of a document) over the communication channel during a second synchronization session (transmitter and receiver are synchronized for exchanging the second component); and combining the first and second components of the document at the mobile terminal (frames are recombined at the mobile terminal to display the document to the user).

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As concerns claim 34, the mobile terminal as recited in claim 33, wherein the first component of the document is received over a first communication channel; and the second component of the document is received over a second communication channel (column 1, line 32, one of the many communication channels are used, different channels used for transmitting/receiving different frames).

As concerns claim 35, the mobile terminal as recited in claim 34, wherein the first communication channel comprises a first bandwidth (channel inherently has a bandwidth); and the second communication channel comprises a second bandwidth (channel inherently has a bandwidth) greater than the first bandwidth (bandwidth of second channel can be greater due to less traffic or less interference from noise at a particular point in time, also column 3, lines 61-64).

As concerns claim 43, a computer program embodied on a computer readable storage medium for use in a mobile terminal, the computer program (DTE inherently has a computer program for executing particular instructions for processing) comprising code segments for: receiving a first component of a document (first frame of a document) over a first communication channel (column 1, line 32, one of the many communication channels are used); receiving a second component of the document (second frame of a document) over a second communication channel (column 1, line 32, one of the many communication channels are used); and combining the first and second components of the document at the mobile terminal (frames are recombined at the mobile terminal to display the document to the user).

As concerns claim 44, the computer program as recited in claim 43, wherein the first communication channel comprises a first bandwidth (channel inherently has a bandwidth); and

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the second communication channel comprises a second bandwidth (channel inherently has a bandwidth) greater than the first bandwidth (bandwidth of second channel can be greater due to less traffic or less interference from noise at a particular point in time; also column 3, lines 61-64).

As concerns claim 52, the computer program as recited in claim 43, wherein the first component of the document is received over the first communication channel substantially concurrent with receiving the second component of the document over the second communication channel (rate of transmission is at such a speed such that reception of the first and second components of the document are considered to be received concurrently; for an interface receiving data serially, the buffer will received one after the other).

As concerns claim 53, the computer program as recited in claim 43, wherein the first component of the document is received during a first synchronization session (transmitter and receiver are synchronized for exchanging the first component); and the second component of the document is received during a second synchronization session (transmitter and receiver are synchronized for exchanging the second component).

As concerns claim 54, a computer program embodied on a computer readable storage medium for use in a mobile terminal, the computer program (DTE inherently has a computer program for executing particular instructions for processing) comprising code segments for: receiving a first component of a document (first frame of a document) over a communication channel (column 1, line 32, one of the many communication channels are used) during a first synchronization session (transmitter and receiver are synchronized for exchanging the first component); receiving a second component of the document (second frame of a document) over

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the communication channel during a second synchronization session (transmitter and receiver are synchronized for exchanging the second component); and combining the first and second components of the document at the mobile terminal (frames are recombined at the mobile terminal to display the document to the user).

As concerns claim 55, the computer program as recited in claim 54, wherein the first component of the document is received over a first communication channel; and the second component of the document is received over a second communication channel (column 1, line 32, one of the many communication channels are used; different channels used for transmitting/receiving different frames).

As concern claim 56, the computer program as recited in claim 55, wherein: the first communication channel comprises a first bandwidth (channel inherently has a bandwidth); and the second communication channel comprises a second bandwidth (channel inherently has a bandwidth) greater than the first bandwidth (bandwidth of second channel can be greater due to less traffic or less interference from noise at a particular point in time; also column 3, lines 61-64).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the 4. examiner should be directed to John B. Walsh whose telephone number is 571-272-7063. The examiner can normally be reached on Monday-Thursday from 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on 571-272-3939. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Primary Examiner Art Unit 2151